

RIC IAN BARRIOS

Manila, Metro Manila, Philippines | ricbarrios45@gmail.com |

[LinkedIn](#) | [GitHub](#)

Curriculum Vitae

EDUCATION

Far Eastern University - Institute of Technology, Sampaloc, Manila

Bachelor of Science in Computer Science, Specialization in Software Engineering

Aug 2023 to Present

Undergraduate Thesis: KitaKo: An Image Retrieval and Multimodal Visual Search Framework for Mobile Devices Utilizing Sigmoid-based Pairwise Loss Function and Handling Taglish Inputs (Jan 2026 to May 2026)

Relevant Coursework: Data Structures and Algorithms, Algorithms, Object-Oriented Programming, Discrete Structures 1 and 2, Automata Theory and Formal Languages, Programming Languages, Computer Systems and Architecture, Operating Systems, Database Systems, Information Management, Networks and Communications 1 and 2A, Software Engineering 1 and 2, Mobile Programming, Applications Development and Emerging Technologies, Parallel and Distributed Computing, Computer Graphics and Visual Computing, Image Processing, Modeling and Simulation, Information Assurance and Security, CS Project Management, Number Theory, Linear Algebra, Applied Statistics for CS

RESEARCH

KitaKo: An Image Retrieval and Multimodal Visual Search Framework for Mobile Devices

Undergraduate Thesis, FEU Institute of Technology · Jan 2026 to May 2026

- Built a fully on-device semantic photo search app using SigLIP-2 embeddings and ONNX Runtime, running offline with no server or internet dependency
- Applied a sigmoid-based pairwise loss function (SigLIP-2) for image and text retrieval on mobile devices
- Developed a Taglish (Tagalog-English) text normalizer to clean code-switched, informal queries before embedding

PROFESSIONAL EXPERIENCE

Tech Intern (Software Developer), ShopSlayer AI, Remote

Jul 2026 to Present

- Built and maintained features for the company's web-based certification platform
- Worked with an engineering team to build a new platform and connect it to existing company systems, taking part in sprint planning and code reviews

Student Assistant, iTamaraw Center for Academic Resources and Enrichment, Sampaloc, Manila

Aug 2023 to Present

- Managed front-desk operations, assisting students, faculty, and visitors with day-to-day inquiries
- Maintained accurate attendance and consistently rendered all required duty hours on schedule
- Facilitated and coordinated review sessions for professors and peers

LEADERSHIP & ORGANIZATIONS

Technical Events Lead, Association for Computing Machinery FEU Tech, Sampaloc, Manila

Aug 2024 to Jul 2025

- Directed a student technical team, coordinating members to deliver audio and visual production for campus-wide events
- Selected as technician for the university's commencement ceremony, handling full AV setup and delivery
- Managed lighting, visuals, and sound delivery for live campus events, ensuring smooth on-stage execution

PROJECTS

Kislap

Oct 2026

- Built a reading app that teaches Filipino children to read in Filipino, filling a gap left by children's media that is mostly in English
- Ran the AI model locally on the device, so the app works without an internet connection and keeps children's data off outside servers

CC-Fluidity

Jun 2026 to Present

- Built a VS Code extension that visualizes Claude Code usage as real-time fluid-physics test tubes
- Integrated the Anthropic usage API with in-memory and on-disk caching to track live rate limits
- Engineered a custom HTML5 Canvas physics renderer for smooth real-time fluid animation inside the VS Code webview

LICENSES & CERTIFICATIONS

SAP Certified - Backend Developer - SAP Cloud Application Programming Model, SAP

Issued Oct 18, 2026 · Expires Oct 19, 2027

Validates knowledge of using the SAP Cloud Application Programming Model (CAP) to design and build extension applications for SAP S/4HANA Cloud on SAP BTP.

Credential: www.credly.com/badges/4749cfe0-ab62-43d3-9596-ab0dcfa5ba16

SAP Certified - SAP Generative AI Developer, SAP

Issued Oct 18, 2026 · Expires Oct 19, 2027

Verifies skills in SAP Business AI and extending SAP BTP applications with large language models using SAP AI Core, SAP AI Launchpad, and the generative AI hub.

Credential: www.credly.com/badges/cf555e7d-1989-4bb3-8d39-befc8249a651

PMI Project Management Ready, Project Management Institute

Issued Mar 2026 · Expires Mar 2031

Python, Pearson

Issued Jul 2025 · Expires Jun 2030

TECHNICAL SKILLS

Languages: Python, C/C++, TypeScript, HTML/CSS

Frameworks & Engines: React, Flutter, Godot, OpenGL

Tools: Git, VS Code Extension API, ONNX Runtime

Areas: AI Engineering, On-device Machine Learning, Software Engineering

REFERENCES

Available upon request.